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1. A11a-T018: Thin-Film Multiferroic Heterostructures for Frequency-Agile RF Electronics

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: The goal of the research is to demonstrate the feasibility of using thin-film multiferroic heterostructures as magneto-electric tunable RF isolators at frequencies above 10 GHz. DESCRIPTION: Magnetic-field tunable ferrite devices are currently used as resonators, filters, phase-shifters, circulators, isolators. Unfortunately, the tuning response times limit their use at higher frequ ...

STTR Army

2. A11a-T019: Rugged Automated Training System

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: The objective of this STTR is to develop a machine that will reliably train small animals to detect explosives or other compounds of interest and will provide an objective unbiased measurement of the animal"s sensitivity and accuracy. DESCRIPTION: The Army is engaged in extensive humanitarian demining efforts. Demining is often necessary to restore farm land to agricultural use, ...

STTR Army

3. A11a-T020: Automated malware understanding and classification

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Automated techniques for understanding and classifying behavior of novel malware. DESCRIPTION: The number of new malware being encountered in the wild is steadily and rapidly increasing. Recent reports show that more than 5,000 new, unique malware samples are encountered daily. In order to keep pace and not fall behind in the arms race with malware creators, there is a dire need for ...

STTR Army

4. A11a-T021: Artificial Antibodies for Biological Sensing Based on DNA Origami

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: To build artificial antibodies using DNA origami and develop novel types of electo-optical based biological sensing methodologies. DESCRIPTION: Nature is adept at producing molecules that can recognize and specifically bind to other molecules. In biological systems, antibodies can search out and selectively bind to specific target molecules in the presence of numerous other substance ...

STTR Army

5. A11a-T022: Integrated THz Plasmonic Chemical and Biological Sensors

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: To design, fabricate, and demonstrate a new class of plasmonic sensors for chemical and biological sensing based on terahertz (THz) frequency quasi-optical spectroscopy. DESCRIPTION: The Army has an urgent need for new sensor-based plasmonic architectures for biological and chemical sensing, with superior sensitivity and high-volume processing capability. Examples include a novel nan ...

STTR Army

6. A11a-T023: Dual Fuel Use of JP-8 and Hydrogen for Improved Compression Ignition Engine Performance

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Determine the effect on engine performance of introducing hydrogen/syngas into a compression ignition engine and develop a means to produce the hydrogen/syngas in-situ. DESCRIPTION: The Army seeks to improve the fuel efficiency and/or emissions of its compression ignition engines. Compression ignitions engines are utilized across a variety of platforms including, but not limited ...

STTR Army

7. A11a-T024: Advanced Wavelength Tuners for Chem-Bio Detection Lasers

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: We are seeking advanced, robust wavelength tuners for laser transmitters operating in the 3-5 um and 8-12 um bands for application to point and standoff detection of chemical and biological agents. DESCRIPTION: A variety of wavelength agile laser transmitters are contemplated for advanced point and standoff sensors to probe for chemical and biological agents. These include most not ...

STTR Army

8. A11a-T025: Electrostatic Charge/Discharge Processes in Biological Aerosols

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: To develop a bioaerosol trigger based on electrostatic charge/discharge rates. DESCRIPTION: The current generation of UV fluorescence based triggers for bioweapon detection systems are not able to detect the complete spectrum of anticipated bioweapon attacks. Current biological warfare agent detection systems within the chem/bio defense community depend on UV fluorescence to trigger ...

STTR Army

9. A11a-T026: Improve pyrotechnic smoke formulations that produce low flame

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: To develop an alternative to the existing hexachloroethane (HC) and terephthalic (TA) smoke compositions that will produce a very low flame while maintaining a high smoke output. This composition should be similar in high performance as the M8 HC Smoke Grenade but with much less toxic materials and less incendiary hazards. New formulations should avoid hazardous materials to address ...

STTR Army

10. A11a-T027: Nanofluidic Separation of Long DNA Molecules

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Design, fabrication, and demonstration of an electrophoretic capillary nanofluidic integrated sensor platform effective for the separation of biological molecules into different sizes for use in detection, identification, and classification applications. DESCRIPTION: Recently methods have been developed to rapidly separate long-strand polymers according to length. The separation mech ...

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